

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number  
WO 2004/112724 A3

(51) International Patent Classification<sup>7</sup>: A61F 13/00

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/US2004/019820

(22) International Filing Date: 21 June 2004 (21.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/480,500 20 June 2003 (20.06.2003) US  
60/480,393 20 June 2003 (20.06.2003) US

(71) Applicant (for all designated States except US): VIRAL GENOMIX, INC. [US/US]; 3701 Market Street, 4th Floor, Philadelphia, PA 19104 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): KIM, Jong, Joseph [US/US]; 157 Orchard Drive, North Wales, PA 19454 (US).

(74) Agent: DELUCA, Mark; Cozen O'Connor, 1900 Market Street, Philadelphia, PA 19103 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 28 July 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/112724 A3

(54) Title: COMPOSITIONS FOR AND METHODS FOR TREATING HIV

(57) Abstract: Pharmaceutical composition comprising compounds and/or compositions useful to inhibit HIV replication are disclosed. Methods of treating individuals infected with HIV are disclosed. Methods of preventing HIV infection in high risk individuals are disclosed.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US04/19820

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : A61F 13/00  
US CL : 424/449, 448

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 424/449, 448

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,763,190 A (WEINER et al.) 09 June 1998; col.22, lines 1-10; col.26, lines 57-67.	1-27
Y	US 2203/0092145 A1 (JIRA et al.) abstract; page 3, paragraphs 0021, 0022, 0027; page 4, paragraphs: 0028, 0029; page 8, paragraph 0060; page 13, paragraph 0105; pagw 15, paragrpah 0116.	1-27

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:		"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

19 May 2005 (19.05.2005)

Date of mailing of the international search report

21 JUN 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
Facsimile No. (703) 305-3230

Authorized officer

Isis Ghali

Telephone No. (571) 272-1600

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/US04/19820

Continuation of B. FIELDS SEARCHED Item 3:  
West: all data bases.  
Search terms: HIV, progesterone, mifepristone, antiviral, transdermal.